PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

May 24, 2001

(Use several sheets if necessary)

ATTORNEY DOCKET NO.	APPLICATION NO.
0050.1491-005	09/826,752
APPLICANT	
Leonard P. Guarente, *et al.*	
FILING DATE	**GROUP**
April 5, 2001	TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER DOCUMENTS ***(Including Author, Title, Date, Pertinent Pages, Etc.)***

JB	AR	Hirsch, "Accumulation of a Senescence Factor in Yeast Cells", *Experimental Gerontology*, 28(2):195-204 (1993).
JB	AS	Jazwinski, *et al.*, "Replication Control and Differential Gene Expression in Aging Yeast," *Molecular Biology of Aging*, pp. 189-203 (1990).
JB	AT	Jazwinski, "Aging and senescence of the Budding Yeast *Saccharomyces cerevisiae*," *Molecular Microbiology*, 4(3):337-343 (1990).

EXAMINER	DATE CONSIDERED
J.B. Bruce	4/10/03

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JB3	AU	Egilmez and Jazwinski, "Evidence for the Involvement of a Cytoplasmic Factor in the Aging of the Yeast *Saccharomyces cerevisiae*," *Journal of Bacteriology*, 171 (1):37-42 (1989).
JB3	AV	Sainsard-Chanet and Begel, "Transformation of Yeast and *Podospora*: Innocuity of Senescence-Specific DNAs," *Mol Gen Genet*, 204:443-451 (1986).
JB3	AW	Miura and Sato, "Cellular Senescence in Yeast Caused by Carbon-Source Starvation;" *J. Biochem.*, 76: 593-601 (1974).
JB3	AX	Miura and Yanagita, "Cellular Senescence in Yeast Caused by Carbon-Source Starvation," *J. Biochem.*, 72(1): 141-148 (1972).
JB3	AY	Longtine, *et al.*, "Telomere-Mediated Plasmid Segregation in *Saccharomyces cerevisiae* Involves Gene Products Required for Transcriptional Repression at Silencers and Telomeres," *Genetics*, 133:171-182 (1993).
JB3	AZ	Lee and Gross, "Conditional Silencing: The *HMRE* Mating-Type Silencer Exerts a Rapidly Reversible Position Effect on the Yeast *HSP82* Heat Shock Gene," *Molecular and Cellular Biology*, 13(2): 727-738 (1993).
JB3	AR2	Sussel and Shore, "Separation of Transcriptional Activation and Silencing Functions of the *RAP1*-Encoded Repressor/Activator Protein 1: Isolation of Viable Mutants Affecting Both Silencing and Telomere Length," *Proc. Natl. Acad. Sci. USA*, 88: 7749-7753 (September 1991).
JB3	AS2	Schnell, *et al.*, "Genetic and Molecular Characterization of Suppressors of *SIR4* Mutations in *Saccharomyces cerevisiae*," *Genetics* 122:29-46 (May 1989).
JB3	AT2	Marshall, *et al.*, "Functional Domains of SIR4, a Gene Required for Position Effect Regulation in *Saccharomyces cerevisiae*," *Molecular and Cellular Biology*, 7(12): 4441-4452 (1987).

EXAMINER	DATE CONSIDERED
John B. Brunsa	4/10/03

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OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

JBS	AU2	Ivy, et al., "Map Positions of Yeast Genes *SIR1*, *SIR3* and SIR4," *Genetics III*: 735-744 (1985).
JBS	AV2	Aparicio, *et al.*, "Modifiers of Position Effect are Shared Between Telomeric and Silent Mating-Type Loci in S. cerevisiae," *Cell*, 66:1279-1287 (1991).
JBS	AW2	Lundblad and Szostak, "A Mutant with Cell Defect in Telomere Elongation Leads to Senescence in Yeast," 57: 633-643 (1989).
JBS	AX2	Jazwinski, "Genes of Youth: Genetics of Aging in Baker's Yeast," *ASM News*, 59(4): 172-178 (1993).
JBS	AY2	D'Mello, *et al.*, "Molecular Analysis of a Young-Specific Gene in the Yeast *Saccharomyces cerevisiae*," *Abstracts of the 92nd General Meeting of the American Society for Microbiology*, Abstract H-284, pg. 230 (May 26-30 1992).
JBS	AZ2	Egilmez, *et al.*, "Specific Alterations in Transcript Prevalence During the Yeast Life Span," *The Journal of Biological Chemistry*, 264(24): 14312-14317 (1989).
JBS	AR3	Jazwinski, *et al.*, "Replication Control and Differential Gene Expression in Aging Yeast," *Molecular Biology of Aging*, pp. 189-203 (1989).
JBS	AS3	Muller, *et al.*, "Calendar Life Span *Versus* Budding Life Span of *Saccharomyces cerevisiae*," Mechanisms of Ageing and Development, 12(1): 47-52 (1980).
JBS	AT3	Urrestarazu and Jauniaux, Protein Sequence Database, Accession Number S38114 (1994).

EXAMINER	DATE CONSIDERED
John S. Bruce	4/11/03

attachment Paper 11

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13407-017005	Application No. 09/826,752
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Leonard P. Guarente et al.	
(37 CFR §1.98(b))		Filing Date April 5, 2001	Group Art Unit 1631

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JB	AA	5,565,323	10/15/96	Parker et al.			
JB	AB	5,705,350	01/06/98	Mudryj et al.			
JB	AC	5,744,300	04/28/98	Linskens et al.			
JB	AD	5,817,782	10/06/98	Jazwinski			
JB	AE	5,840,493	11/24/98	Davis et al.			
JB	AF	5,965,543	10/12/99	Campisi et al.			
JB	AG	6,027,883	02/22/00	Herrnstadt et al.			
JB	AH	6,146,831	11/14/00	Davis et al.			
JB	AI	6,291,172	09/18/01	Davis et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
JB	AJ	WO 96/05850	02/29/96	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

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JB	AK	Allsopp *et al.*, "Telomere length predicts replicative capacity of human fibroblasts", *Proc. Natl. Acad. Sci. USA* 89:10114-10118 (1992)
JB	AL	Angello *et al.*, "Cell Enlargement: One Possible Mechanism Underlying Cellular Senescence", *J. Cell. Physiol.* 140:288-294 (1989)
JB	AM	Angello *et al.*, "Proliferative Potential of Human Fibroblasts: An Inversive Dependence on Cell Size", *J. Cell. Physiol.* 132:125-130 (1987)
JB	AN	Bertrand *et al.*, "An Extrachromosomal Plasmid Is the Etiological Precursor of kaIDNA Insertion Sequences in the Mitochrondial Chromosome of Senescent Neurospora", *Cell* 47:829-837 (1986)
JB	AO	Cabib *et al.*, "A Molecular Model for Morphogenesis: The Primary Septum of Yeast", *Curr. Top. Cell. Regul.* 8:1-32 (1974)
JB	AP	Cristofalo and Kritchevsky, "Cell Size and Nucleic Acid Content in the Diploid Human Cell Line WI-38 During Aging", *Med. Exp.* 19:313-320 (1969)
JB	AQ	Cristofalo *et al.*, "Growth factors as probes of cell aging", *Exp. Gerontol.* 24:367-374 (1989)
JB	AR	Cummings *et al.*, "Excision—Amplification of Mitochrondial DNA During Senescence in *Podospora anserina*", *J. Mol. Biol.* 185:659-680 (1985)
JB	AS	Cziepluch *et al.*, "Sequencing analysis of a 40·2 kb fragment of yeast chromosome X reveals 19 open reading frames including *URA2* (5' end), *TRK1, PBS2, SPT10, GCD14, RPE1, PHO86, NCA3, ASF1, CCT7, GZF3*, two tRNA genes, three remnant delta elements and a Ty4 transposon", *Yeast* 12:1471-1474 (1996)

Examiner Signature	Date Considered
J. S. Brusca	4/11/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13407-017005	Application No. 09/826,752
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Leonard P. Guarente et al.	
		Filing Date April 5, 2001	Group Art Unit 1631

(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)

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	AT	Egilmez *et al.*, "Preparation and Partial Characterization of Old Yeast Cells", *J. Gerontol. Biol. Sci.* 45:B9-17 (1990)
	AU	Friedman and Johnson, "A Mutation in the *age-1* Gene in *Caenorhabditis elegans* Lengthens Life and Reduces Hermaphrodite Fertility", *Genetics* 118:75-86 (1988)
	AV	Guarente, "UASs and Enhancers: Common Mechanism of Transcriptional Activation in Yeast and Mammals", *Cell* 52:303-305 (1988)
	AW	Guarente and Kenyon, "Genetic pathways that regulate ageing in model organisms", *Nature* 408:255-262 (2000)
	AX	Harley *et al.*, "Telomeres shorten during ageing of human fibroblasts", *Nature* 345:458-460 (1990)
	AY	Hayflick, "The limited *in vitro* lifetime of human diploid cell strains", *Exp. Cell Res.* 37:614-636 (1965)
	AZ	Hayflick and Moorhead, "The serial cultivation of human diploid cell strains", *Exp. Cell Res.* 25:585-621 (1961)
	AAA	Jazwinski, "Longevity, Genes, and Aging", *Science* 273:54-59 (1996)
	ABB	Kenyon *et al.*, "A *C. elegans* mutant that lives twice as long as wild type", *Nature* 366:461-464 (1993)
	ACC	Koll *et al.*, "A 1100-bp Sequence of Mitochondrial DNA Is Involved in Senescence Process in *Podospora*: Study of Senescent and Mutant Cultures", *Plasmid* 14:106-117 (1985)
	ADD	Lazarus *et al.*, "Amplification of a Mitochondrial DNA Sequence in the Cytoplasmically Inherited 'Ragged' Mutant of *Aspergillus amstelodami*", *Eur. J. Biochem* 106:663-641 (1980)
	AEE	Lumpkin Jr., *et al.*, "Existence of High Abundance Antiproliferative mRNA's in Senescent Human Diploid Fibroblasts", *Science* 232:393-395 (1986)
	AFF	McConnell *et al.*, "Temperate-sensitive Yeast Mutants Defective in Mitochondrial Inheritance", *J. Cell Biol.* 111:967-976 (1990)
	AGG	Mortimer and Johnston, "Life Span of Individual Yeast Cells", *Nature* 183:1751-1752 (1959)
	AHH	Müller, "Experiments on Ageing in Single Cells of *Saccharomyces cerevisiae*", *Arch. Mikrobiol.* 77:20-25 (1971)
	AII	Müller, "Parental age and the life-span of zygotes of *Saccharomyces cerevisiae*", *Antonie van Leeuwenhoek* 51:1-10 (1985)
	AJJ	Müller and Wolf, "A Correlation Between Shortened Life Span and UV-Sensitivity in Some Strain of *Saccharomyces cerevisiae*", *Mol. Gen. Genet.* 160:231-234 (1978)
	AKK	Norwood *et al.*, "Dominance of the Senescent Phenotype in Heterokaryons Between Replicative and Post-Replicative Human Fibroblast-Like Cells", *Proc. Natl. Acad. Sci. USA* 71:2231-2235 (1974)
	ALL	Olovnikov, "A Theory of Marginotomy: The Incomplete Copying of Template Margin in Enzymic Synthesis of Polynucleotides and Biological Significance of the Phenomenon", *J. Theor. Biol.* 41:181-190 (1973)
	AMM	Orgel, "Ageing of Clones of Mammalian Cells", *Nature* 243:441-445 (1973)
	ANN	Palladino *et al.*, "SIR3 and SIR4 Proteins Are Required for the Positioning and Integrity of Yeast Telomeres", *Cell* 75:543-555 (1993)
	AOO	Pélissier *et al.*, "*NCA3*, a nuclear gene involved in the mitochondrial expression of subunits 6 and 8 of the Fo-F1 ATP synthase of *S. cerevisiae*", *Curr. Genet.* 27:409-416 (1995)

Examiner Signature	Date Considered
J.B. Bruce	4/11/03

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		Filing Date April 5, 2001	Group Art Unit 1631

Other Documents (include Author, Title, Date, and Place of Publication)

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	APP	Pereira-Smith and Smith, "Genetic analysis of indefinite division in human cells: Identification of four complementation groups", *Proc. Natl. Acad. Sci. USA* 85:604-60462 (1988)
	AQQ	Pohley, "A formal mortality analysis for populations of unicellular organisms (*saccharomyces cerevisiae*)", *Mechanisms of Ageing and Development* 38:231-243 (1987)
	ARR	Pringle *et al.*, "Fluorescence Microscopy Methods for Yeast", *Methods in Cell Biology* 31:357-435 (1989)
	ASS	NCBI Accession No. P46955, Submitted AUG-1995
	ATT	NCBI Accession No. P25339, Submitted MAY-1996

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